

List of Publications by Year in descending order

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114
papers

4,060
citations

117571

34
h-index

128225

60
g-index

120
all docs

120
docs citations

120
times ranked

4742
citing authors

#	ARTICLE	IF	CITATIONS
1	Geochemistry of surface waters around four hard-rock lithium deposits in Central Europe. <i>Journal of Geochemical Exploration</i> , 2022, 234, 106937.	1.5	4
2	Nanoscale transformations of amphiboles within human alveolar epithelial cells. <i>Scientific Reports</i> , 2022, 12, 1782.	1.6	7
3	Tire-Abrasion Particles in the Environment. <i>Advances in Polymer Science</i> , 2022, , 71-101.	0.4	3
4	Spatial Analysis and Lead-Risk Assessment of Philadelphia, USA. <i>GeoHealth</i> , 2022, 6, e2021GH000519.	1.9	9
5	Asbestos and Other Hazardous Fibrous Minerals: Potential Exposure Pathways and Associated Health Risks. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4031.	1.2	16
6	Road sediment, an underutilized material in environmental science research: A review of perspectives on United States studies with international context. <i>Journal of Hazardous Materials</i> , 2022, 432, 128604.	6.5	8
7	Alteration of yellow traffic paint in simulated environmental and biological fluids. <i>Science of the Total Environment</i> , 2021, 750, 141202.	3.9	8
8	Multi-scale characterization of glaucophane from Chiavolino (Biella, Italy): implications for international regulations on elongate mineral particles. <i>European Journal of Mineralogy</i> , 2021, 33, 77-112.	0.4	9
9	Investigation of Pb-contaminated soil and road dust in a polluted area of Philadelphia. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 440.	1.3	10
10	Lead Pollution, Demographics, and Environmental Health Risks: The Case of Philadelphia, USA. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9055.	1.2	12
11	Use of biomass ash from different sources and processes in cement. <i>Journal of Sustainable Cement-Based Materials</i> , 2020, 9, 350-370.	1.7	5
12	Micro- and nano-scale mineralogical characterization of Fe(II)-oxidizing bacterial stalks. <i>Geobiology</i> , 2020, 18, 606-618.	1.1	5
13	Impact of an in-situ Cr(VI)-contaminated site remediation on the groundwater. <i>Environmental Science and Pollution Research</i> , 2020, 27, 14465-14475.	2.7	14
14	Dimensional distribution control of elongate mineral particles for their use in biological assays. <i>MethodsX</i> , 2020, 7, 100937.	0.7	7
15	A mineralogical and chemical investigation of road dust in Philadelphia, PA, USA. <i>Environmental Science and Pollution Research</i> , 2020, 27, 14883-14902.	2.7	20
16	Opaline phytoliths in <i>Miscanthus sinensis</i> and its cyclone ash from a biomass-combustion facility. <i>Industrial Crops and Products</i> , 2019, 139, 111539.	2.5	3
17	Mineral Fibres and Asbestos Bodies in Human Lung Tissue: A Case Study. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 618.	0.8	18
18	Physicochemical and mineralogical characterization of biomass ash from different power plants in the Upper Rhine Region. <i>Fuel</i> , 2019, 258, 116020.	3.4	22

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19	Charcoal as an Energy Resource: Global Trade, Production and Socioeconomic Practices Observed in Uganda. <i>Resources</i> , 2019, 8, 183.	1.6	36
20	Experimental quantification of the Fe-valence state at amosite-asbestos boundaries using acSTEM dual-electron energy-loss spectroscopy. <i>American Mineralogist</i> , 2019, 104, 1820-1828.	0.9	8
21	Depicting the crystal structure of fibrous ferrierite from British Columbia using a combined synchrotron techniques approach. <i>Journal of Applied Crystallography</i> , 2019, 52, 1397-1408.	1.9	7
22	Communal biofuel burning for district heating: Emissions and immissions from medium-sized (0.4 and) Tj ETQq0 0 0 µgBT /Overlock 10 T	1.9	6
23	Mineralogical Characterization and Dissolution Experiments in Gamble's Solution of Tremolitic Amphibole from Passo di Caldenno (Sondrio, Italy). <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 557.	0.8	11
24	Infra Red Spectroscopy of the Regulated Asbestos Amphiboles. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 413.	0.8	16
25	Characterization and in vitro biological effects of ambient air PM10 from a rural, an industrial and an urban site in Sulaimani City, Iraq. <i>Toxicological and Environmental Chemistry</i> , 2018, 100, 373-394.	0.6	4
26	Hydrokenopyrochlore, (â-j,#)2Nb2O6Â-H2O, a new species of the pyrochlore supergroup from the Sahatany Pegmatite Field, Antananarivo Province, Madagascar. <i>European Journal of Mineralogy</i> , 2018, 30, 869-876.	0.4	8
27	Tire Abrasion as a Major Source of Microplastics in the Environment. <i>Aerosol and Air Quality Research</i> , 2018, 18, 2014-2028.	0.9	330
28	Metal biogeochemistry in constructed wetlands based on fluvial sand and zeolite- and clinopyroxene-dominated lava sand. <i>Scientific Reports</i> , 2017, 7, 2981.	1.6	4
29	Cytotoxic and genotoxic responses of human lung cells to combustion smoke particles of Miscanthus straw, softwood and beech wood chips. <i>Atmospheric Environment</i> , 2017, 163, 138-154.	1.9	25
30	How the user can influence particulate emissions from residential wood and pellet stoves: Emission factors for different fuels and burning conditions. <i>Atmospheric Environment</i> , 2017, 158, 216-226.	1.9	74
31	Lithium-rich albiteâ€“topazâ€“lepidolite granite from Central Vietnam: a mineralogical and geochemical characterization. <i>European Journal of Mineralogy</i> , 2017, 29, 35-52.	0.4	12
32	Generation of shock lamellae and melting in rocks by lightningâ€“induced shock waves and electrical heating. <i>Geophysical Research Letters</i> , 2017, 44, 8757-8768.	1.5	24
33	Petrography and chemistry of tungsten-rich oxycalciobertholite in hydrothermal veins of the Adamello contact aureole, northern Italy. <i>Mineralogy and Petrology</i> , 2017, 111, 499-509.	0.4	3
34	Mineralogical and compositional features of rock fulgurites: A record of lightning effects on granite. <i>American Mineralogist</i> , 2017, 102, 1470-1481.	0.9	29
35	11. Titanate ceramics for high-level nuclear waste immobilization. , 2017, , 223-242.		1
36	Chromitites, platinum-group elements, and ore minerals; Special issue dedicated to ZdenÄk Johan (1935â€“2016): Preface. <i>European Journal of Mineralogy</i> , 2017, 29, 539-541.	0.4	1

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37	Mineralogical and geochemical characterization of a chromium contamination in an aquifer - A combined analytical and modeling approach. <i>Applied Geochemistry</i> , 2017, 87, 44-56.	1.4	19
38	Stress fibers, autophagy and necrosis by persistent exposure to PM2.5 from biomass combustion. <i>PLoS ONE</i> , 2017, 12, e0180291.	1.1	36
39	Coarse-Particle Passive-Sampler Measurements and Single-Particle Analysis by Transmitted Light Microscopy at Highly Frequented Motorways. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1939-1953.	0.9	15
40	MINERALOGICAL AND CHEMICAL CHARACTERIZATION OF ROAD DUST IN PHILADELPHIA, PA. , 2017, , .		0
41	Comparing single-particle analysis data of volcanic ash of the 2010 Eyjafjallaj�kull eruption obtained from scanning electron and light microscope images. <i>European Journal of Mineralogy</i> , 2016, 28, 855-868.	0.4	1
42	Surface Crystal Chemistry of Phyllosilicates Using X-Ray Photoelectron Spectroscopy: A Review. <i>Clays and Clay Minerals</i> , 2016, 64, 537-551.	0.6	49
43	Magnetite in the human body: Biogenic vs. anthropogenic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11986-11987.	3.3	38
44	Redox states of uranium in samples of microlite and monazite. <i>American Mineralogist</i> , 2016, 101, 1884-1891.	0.9	8
45	Bottom ash of trees from Cameroon as fertilizer. <i>Applied Geochemistry</i> , 2016, 72, 88-96.	1.4	20
46	Origin and Formation of Tourmaline-rich Cordierite-bearing Metapelitic Rocks from Alpe Sponda, Central Alps (Switzerland). <i>Journal of Petrology</i> , 2016, 57, 277-308.	1.1	2
47	Lightning-induced shock lamellae in quartz. <i>American Mineralogist</i> , 2015, 100, 1645-1648.	0.9	21
48	Antibiotics and sweeteners in the aquatic environment: biodegradability, formation of phototransformation products, and in vitro toxicity. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18017-18030.	2.7	22
49	Pb, Sr and Nd isotopic composition and trace element characteristics of coarse airborne particles collected with passive samplers. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 267-276.	0.4	4
50	Extraction of lithium from lepidolite via iron sulphide roasting and water leaching. <i>Hydrometallurgy</i> , 2015, 153, 154-159.	1.8	59
51	Fluorescence Microscopy Analysis of Particulate Matter from Biomass Burning: Polyaromatic Hydrocarbons as Main Contributors. <i>Aerosol Science and Technology</i> , 2015, 49, 1160-1169.	1.5	11
52	The role of Th-U minerals in assessing the performance of nuclear waste forms. <i>Mineralogical Magazine</i> , 2014, 78, 1071-1095.	0.6	31
53	Recalcitrant pharmaceuticals in the aquatic environment: a comparative screening study of their occurrence, formation of phototransformation products and their in vitro toxicity. <i>Environmental Chemistry</i> , 2014, 11, 431.	0.7	40
54	GEOLIFE â€“ Geomaterials for the environment, technology and human activities. Preface to the October 2014 special set of papers arising from presentations at the Goldschmidt 2013 conference. <i>Mineralogical Magazine</i> , 2014, 78, i-iii.	0.6	0

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55	Cell-Cycle Changes and Oxidative Stress Response to Magnetite in A549 Human Lung Cells. <i>Chemical Research in Toxicology</i> , 2013, 26, 693-702.	1.7	32
56	Fe and Mn Oxidation States by TEM-EELS in Fine-Particle Emissions from a Fe-Mn Alloy Making Plant. <i>Environmental Science & Technology</i> , 2013, 47, 10832-10840.	4.6	36
57	Open-pit coal-mining effects on rice paddy soil composition and metal bioavailability to <i>Oryza sativa</i> L. plants in Cam Pha, northeastern Vietnam. <i>Environmental Science and Pollution Research</i> , 2013, 20, 7686-7698.	2.7	15
58	Cellular Uptake and Toxic Effects of Fine and Ultrafine Metal-Sulfate Particles in Human A549 Lung Epithelial Cells. <i>Chemical Research in Toxicology</i> , 2012, 25, 2687-2703.	1.7	18
59	Chemical and isotopic properties and origin of coarse airborne particles collected by passive samplers in industrial, urban, and rural environments. <i>Atmospheric Environment</i> , 2012, 62, 631-645.	1.9	36
60	Uranium oxide and other airborne particles deposited on cypress leaves close to a nuclear facility. <i>Journal of Environmental Monitoring</i> , 2012, 14, 1264.	2.1	12
61	Biodegradability and ecotoxicity of tramadol, ranitidine, and their photoderivatives in the aquatic environment. <i>Environmental Science and Pollution Research</i> , 2012, 19, 72-85.	2.7	62
62	Actinides and decay products in selected produce and bioindicators in the vicinity of a uranium plant. <i>Journal of Environmental Monitoring</i> , 2011, 13, 1327.	2.1	10
63	Cytotoxicity and Genotoxicity of Size-Fractionated Iron Oxide (Magnetite) in A549 Human Lung Epithelial Cells: Role of ROS, JNK, and NF- κ B. <i>Chemical Research in Toxicology</i> , 2011, 24, 1460-1475.	1.7	145
64	Substituting non-natural agents in UV-protection cream by a mixture of clay with <i>Ganoderma pfeifferi</i> extract. <i>Applied Clay Science</i> , 2011, 53, 66-72.	2.6	10
65	Correlation of Growth and Breakdown of Major and Accessory Minerals in Metapelites from Campolungo, Central Alps. <i>Journal of Petrology</i> , 2011, 52, 2293-2334.	1.1	46
66	Genotoxic effects of three selected black toner powders and their dimethyl sulfoxide extracts in cultured human epithelial A549 lung cells in vitro. <i>Environmental and Molecular Mutagenesis</i> , 2011, 52, 296-309.	0.9	46
67	Solid Particulate Matter in the Atmosphere. <i>Elements</i> , 2010, 6, 215-222.	0.5	101
68	THE PYROCHLORE SUPERGROUP OF MINERALS: NOMENCLATURE. <i>Canadian Mineralogist</i> , 2010, 48, 673-698.	0.3	233
69	UV-protection characteristics of some clays. <i>Applied Clay Science</i> , 2010, 48, 349-357.	2.6	62
70	Airborne Particles in the Urban Environment. <i>Elements</i> , 2010, 6, 229-234.	0.5	74
71	Zinc Isotopic Composition of Particulate Matter Generated during the Combustion of Coal and Coal + Tire-Derived Fuels. <i>Environmental Science & Technology</i> , 2010, 44, 9219-9224.	4.6	49
72	Antimony sinks in the weathering crust of bullets from Swiss shooting ranges. <i>Science of the Total Environment</i> , 2009, 407, 1669-1682.	3.9	68

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73	Late-stage hydrothermal alteration and heteromorphism of calcâ€“alkaline lamprophyre dykes in Late Jurassic Granite, Southeast China. <i>Lithos</i> , 2009, 113, 820-830.	0.6	8
74	Metamict fergusonite-(Y) in a spessartine-bearing granitic pegmatite from Adamello, Italy. <i>Chemical Geology</i> , 2009, 261, 333-345.	1.4	22
75	The chemistry of barium anomalies in the Berisal Complex, Simplon Region, Switzerland. <i>International Journal of Earth Sciences</i> , 2008, 97, 51-69.	0.9	5
76	TEM Study of PM2.5 Emitted from Coal and Tire Combustion in a Thermal Power Station. <i>Environmental Science & Technology</i> , 2006, 40, 6235-6240.	4.6	103
77	Natural immobilization processes aid the understanding of long-term evolution of deep geological radioactive waste repositories. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2006, 6, 3-4.	0.5	3
78	Chemical composition of fuels and emissions from a coal+tire combustion experiment in a power station. <i>Fuel</i> , 2006, 85, 2278-2285.	3.4	52
79	Recommended nomenclature of epidote-group minerals. <i>European Journal of Mineralogy</i> , 2006, 18, 551-567.	0.4	232
80	Partitioning and Leaching Behavior of Actinides and Rare Earth Elements in a Zirconolite-bearing Hydrothermal Vein System. <i>Materials Research Society Symposia Proceedings</i> , 2006, 985, 1.	0.1	2
81	Risk Ranking of Bioaccessible Metals from Fly Ash Dissolved in Simulated Lung and Gut Fluids. <i>Environmental Science & Technology</i> , 2005, 39, 7749-7756.	4.6	65
82	A Strategy for Teaching an Effective Undergraduate Mineralogy Course. <i>Journal of Geoscience Education</i> , 2004, 52, 15-22.	0.8	5
83	Energy, waste and the environment â€” a geochemical perspective: introduction. <i>Geological Society Special Publication</i> , 2004, 236, 1-5.	0.8	14
84	Nuclear waste forms. <i>Geological Society Special Publication</i> , 2004, 236, 37-63.	0.8	37
85	Environmental impact of energy recovery from waste tyres. <i>Geological Society Special Publication</i> , 2004, 236, 475-498.	0.8	13
86	Geochemical behaviour of host phases for actinides and fission products in crystalline ceramic nuclear waste forms. <i>Geological Society Special Publication</i> , 2004, 236, 89-111.	0.8	19
87	Allanite and Other REE-Rich Epidote-Group Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2004, 56, 431-493.	2.2	219
88	U-Th-Pb and ²³⁰ Th/ ²³⁸ U disequilibrium isotope systematics: Precise accessory mineral chronology and melt evolution tracing in the Alpine Bergell intrusion. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2543-2560.	1.6	139
89	The role of secondary minerals in controlling the migration of arsenic and metals from high-sulfide wastes (Berikul gold mine, Siberia). <i>Applied Geochemistry</i> , 2003, 18, 1347-1359.	1.4	144
90	GANTERITE, A NEW BARIUM-DOMINANT ANALOGUE OF MUSCOVITE FROM THE BERISAL COMPLEX, SIMPLON REGION, SWITZERLAND. <i>Canadian Mineralogist</i> , 2003, 41, 1271-1280.	0.3	19

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91	Micro- and nanochemistry of fly ash from a coal-fired power plant. <i>American Mineralogist</i> , 2003, 88, 1853-1865.	0.9	89
92	COMPOSITION OF BARIUM-RICH WHITE MICAS FROM THE BERISAL COMPLEX, SIMPLON REGION, SWITZERLAND. <i>Canadian Mineralogist</i> , 2003, 41, 1281-1292.	0.3	16
93	Element Partitioning in a Pyrochlore-Based Ceramic Nuclear Waste form. <i>Materials Research Society Symposia Proceedings</i> , 2002, 713, 1.	0.1	8
94	Mobility of heavy metals in self-burning waste heaps of the zinc smelting plant in Belovo (Kemerovo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	23
95	Sorption Mechanisms of Zinc to Calcium Silicate Hydrate: Sorption and Microscopic Investigations. <i>Environmental Science & Technology</i> , 2001, 35, 4556-4561.	4.6	56
96	Geikielite exsolution in spinel. <i>American Mineralogist</i> , 2001, 86, 1435-1446.	0.9	7
97	Durability of Zirconolite in Hydrothermal Fluids: Implications for Nuclear Waste Disposal. <i>Materials Research Society Symposia Proceedings</i> , 2000, 663, 1.	0.1	12
98	Geochemistry of Hydrothermal Veins Containing Zirconolite and Betafite at Adamello, Italy. <i>Materials Research Society Symposia Proceedings</i> , 2000, 663, 1.	0.1	0
99	Partitioning of Actinides, Rare Earth Elements, and Other Trace Elements In Titanium-Rich Veins From Adamello, Italy. <i>Materials Research Society Symposia Proceedings</i> , 2000, 663, 1.	0.1	3
100	ORIGIN AND DISTRIBUTION OF SOME TRACE ELEMENTS IN METAMORPHOSED Fe Mn DEPOSITS, VAL FERRERA, EASTERN SWISS ALPS. <i>Canadian Mineralogist</i> , 2000, 38, 1075-1101.	0.3	30
101	Alteration Features in Natural Zirconolite from Carbonatites. <i>Materials Research Society Symposia Proceedings</i> , 2000, 663, 1.	0.1	5
102	Intergrowth Structures in Synthetic Pyrochlores: Implications for Radiation Damage Effects and Waste Form Formulation. <i>Materials Research Society Symposia Proceedings</i> , 1999, 556, 19.	0.1	9
103	Investigation of the Long -Term Performance of Betafite and Zirconolite in Hydrothermal Veins From Adamello, Italy. <i>Materials Research Society Symposia Proceedings</i> , 1999, 556, 793.	0.1	15
104	Growth and Alteration of Uranium-Rich Microlite. <i>Materials Research Society Symposia Proceedings</i> , 1999, 608, 519.	0.1	6
105	Scheelite-powellite and paraniite-(Y) from the Fe-Mn deposit at Faniel, Eastern Swiss Alps. <i>American Mineralogist</i> , 1998, 83, 1100-1110.	0.9	26
106	The Crystalline-Amorphous Transformation in Natural Zirconolite: Evidence for Long-Term Annealing. <i>Materials Research Society Symposia Proceedings</i> , 1997, 506, 215.	0.1	16
107	The crystal chemistry of romite. <i>Contributions To Mineralogy and Petrology</i> , 1997, 127, 136-146.	1.2	37
108	Application of analytical electron microscopy to the study of radiation damage in the complex oxide mineral zirconolite. <i>Micron</i> , 1997, 28, 57-68.	1.1	31

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109	Naturally-Occurring Zirconolites - Analogues for the Long-Term Encapsulation of Actinides in Synroc. <i>Radiochimica Acta</i> , 1996, 74, 309-312.	0.5	14
110	Evolution of compositional polarity and zoning in tourmaline during prograde metamorphism of sedimentary rocks in the Swiss Central Alps. <i>American Mineralogist</i> , 1996, 81, 1222-1236.	0.9	40
111	Determination of 25 elements in the complex oxide mineral zirconolite by analytical electron microscopy. <i>Micron</i> , 1994, 25, 581-587.	1.1	55
112	Transport and deposition of REE in H ₂ S-rich fluids: evidence from accessory mineral assemblages. <i>Chemical Geology</i> , 1993, 110, 251-268.	1.4	37
113	Hydrothermal mobility of Ti, Zr and REE: examples from the Bergell and Adamello contact aureoles (Italy). <i>Terra Nova</i> , 1990, 2, 60-67.	0.9	99
114	Zirconolite, allanite and hoegbomite in a marble skarn from the Bergell contact aureole: implications for mobility of Ti, Zr and REE. <i>Contributions To Mineralogy and Petrology</i> , 1986, 93, 459-470.	1.2	110